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**RN-6905**

**B. E. - III (Sem. V) (Textile Technology) Examination**  
**May / June - 2010**  
**Fabric Structure - I**

Time : 3 Hours]

[Total Marks : 100

**Instructions :**

(1)

नीचे दृशविले निशानीवाणी विगतो उत्तरवडी पर अवश्य लपवी. Fillup strictly the details of signs on your answer book.	Seat No. :
Name of the Examination :	<input type="text"/>
<input type="text" value="B. E. - 3 (Sem. 5) (Textile Technology)"/>	<input type="text"/>
Name of the Subject :	<input type="text"/>
<input type="text" value="Fabric Structure-1"/>	<input type="text"/>
Subject Code No. : <input type="text" value="6"/> <input type="text" value="9"/> <input type="text" value="0"/> <input type="text" value="5"/>	<input type="text"/>
Section No. (1, 2,...): <input type="text" value="1&amp;2"/>	
Student's Signature	

- (2) Answer to the two sections must be written in separate answer books.
- (3) Figures to the right indicate full marks.
- (4) Tie two sections separatel.

**SECTION I**

Q1a.) Do as Directed:

[05]

- i. Cord is the term applied to weft rib. (State True or False).
- ii. In the draft number of horizontal places are equal to \_\_\_\_\_.
- iii. 80's reed is \_\_\_\_\_ than 110's reed.
- iv. Ends/inch in reed are more than the fabric. (State True or False).
- v. Write the formula to calculate twill angle.

Q1b.) Explain, with suitable diagrams, how (1/1,2/1) twill can be produced with intermediate effect. [05]

- Q1c.) Draw Design, Draft & Peg Plan for each of the following: [10]
- i. Wavy Twill on ( 10 x 5)
  - ii. Broken Twill (endwise broken effect)
- Q2a.) Give one design of each honeycomb with equal & unequal cell formation. [05]
- Q2b.) Give one design of each of the 27° & 70° twill angle. [05]
- Q2c.) Draw **only Designs** for each of the following: [05]
- i. Stitched Hopsack
  - ii. Transposed 6/2 twill on 4 thread sateen order base.
- OR
- Q2a.) Draw **only Designs** for each of the following: [10]
- i. Brighton Honeycomb on 16 x 16
  - ii. Hopsack & Twill combination on 12 x 12
  - iii. Mockleno
  - iv. Huck-a-Back
- Q2b.) Give one design for each of the regular & irregular warp rib (Draw crosssection also). [05]
- Q3 .) Write Short Notes on : (Any three) [15]
- i. Relative Firmness of Twill weave
  - ii. Denting of Plain, Hopsack, Mockleno & Huck-a-back
  - iii. Rib & Cord effect in Plain Weave (only one method of each)
  - iv. Importance of Tape length & Heald Count

## SECTION II

- Q4a.) Do as Directed: [10]
- i. Give one point of difference between jeans & denim.
  - ii. Distorted thread effects is also called as \_\_\_\_\_.
  - iii. Name the types of crepe fabrics.
  - iv. Give the possible move no. for regular satin on 10x 10.
  - v. Give the function of wadded ends in wadded Welts.
  - vi. Sponge weave is used for obtaining \_\_\_\_\_ fabrics.
  - vii. \_\_\_\_\_ is a warp faced fabric.
  - viii. Give two examples of light weight fabric.
  - ix. Use of set & unset nylon yarns alternately give \_\_\_\_\_ fabric.
  - x. Warp Cover factor is influenced by ends/inch and \_\_\_\_\_.
- Q4b.) With the help of necessary designs & cross sections, explain how warp & weft way distortion is done. [10]
- Q5a.) Give Design, Draft, Pegplan & cross sections for the following: [10]
- Wadded bedford cord
  - Ordinary Welt.
- Q5b.) State the rules for constructing irregular sateen. Thus give design, draft & pegplan for irregular sateen on 10 x 10. [05]
- OR
- Q5a.) Construct a spot effect(having 3 spots in a repeat) on 30 x 30.(given fabric specifications 36epi & 36 ppi). [10]
- Q5b.) Give only Design for Waved Piques. [05]
- Q6.) Write Short Notes on : (Any three) [15]
- i. Methods of constructing Crepe Weave
  - ii. Twill & sateen Fabrics.
  - iii. Diamond & diaper.
  - iv. Characteristics of sheeting & duck fabrics.